

**AMENDMENT TO THE CLAIMS**

Please enter the following amendments to the claims without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents as follows:

Please cancel claim 23 without prejudice.

1-15 (Canceled)

16. (Previously Presented) An adenovirus (Ad) with novel vector tropism and ablation of native Ad receptor tropism due to the expression of a fiber replacement protein, said fiber replacement protein comprises:

- a) an amino-terminal portion comprising an adenoviral fiber tail domain that associates with the penton base of the adenovirus;
- b) a fiber-fibritin chimeric rod trimeric protein that provides trimerization function; and
- c) a carboxy-terminal portion comprising a targeting ligand.

17. (Previously Presented) The adenovirus of claim 16 wherein the fiber-fibritin chimeric rod trimeric protein is a fiber-fibritin-6His chimera.

18. (Currently Amended) The adenovirus of claim 16 wherein the fiber-fibritin chimeric rod trimeric protein is a fiber-fibritin-RGD-6His chimera.

19. (Previously Presented) The adenovirus of claim 16, wherein said fiber replacement protein retains trimerism when a sequence encoding a targeting ligand is incorporated into the carboxy-terminus.

20. (Previously Presented) The adenovirus of claim 16, wherein said fiber replacement protein is soluble.

21. (Currently Amended) ~~The An~~ An adenovirus of claim 16, wherein said fiber replacement (Ad) with novel vector tropism and ablation of native Ad receptor tropism due to the expression of a fiber replacement protein, said fiber replacement protein comprises:

- a) an amino-terminal portion comprising an adenoviral fiber tail domain that associates with the penton base of the adenovirus;
- b) a fiber-fibritin chimeric rod trimeric protein that provides trimerization function and contains isoleucine trimerization motif; and
- c) a carboxy-terminal portion comprising a targeting ligand.

22. (Currently Amended) ~~The An~~ adenovirus ~~of claim 16, wherein said fiber replacement (Ad) with novel vector tropism and ablation of native Ad receptor tropism due to the expression of a fiber replacement protein, said fiber replacement protein comprises:~~

a) an amino-terminal portion comprising an adenoviral fiber tail domain that associates with the penton base of the adenovirus;

b) a fiber-fibrin chimeric rod trimeric protein that provides trimerization function and contains neck region peptide from human lung surfactant D; and

c) a carboxy-terminal portion comprising a targeting ligand.

23. (Canceled)

24. (Previously Presented) The adenovirus of claim 16, wherein said targeting ligand is selected from the group consisting of physiological ligands, anti-receptor antibodies, cell-specific peptides and single chain antibodies.

25. (Previously Presented) The adenovirus of claim 16, wherein said adenovirus comprises a transgene.

26. (Currently Amended) The adenovirus of claim 25, wherein the transgene is a herpes simplex virus thymidine kinase gene.

27. (New) The adenovirus of claim 21, wherein said targeting ligand is selected from the group consisting of physiological ligands, anti-receptor antibodies, cell-specific peptides and single chain antibodies.

28. (New) The adenovirus of claim 21, wherein said adenovirus comprises a transgene.

29. (New) The adenovirus of claim 28, wherein the transgene is a herpes simplex virus thymidine kinase gene.

30. (New) The adenovirus of claim 22, wherein said targeting ligand is selected from the group consisting of physiological ligands, anti-receptor antibodies, cell-specific peptides and single chain antibodies.

31. (New) The adenovirus of claim 22, wherein said adenovirus comprises a transgene.

32. (New) The adenovirus of claim 31, wherein the transgene is a herpes simplex virus thymidine kinase gene.

**AMENDMENT TO THE DRAWINGS**

Please enter the following amendments to the drawings, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents as follows:

Kindly replace the previously filed drawings for Figures 1-19 with the enclosed formal drawings for Figures 1-19.